

The AirSCWO Nix Systems

AirSCWO uses the unique properties of water above its critical point (374 °C and 221 bar). In these conditions, in the presence of oxygen, organics are rapidly converted to heat, electricity, clean water and minerals with more than 99% reduction in solids volume.

AirSCWO units are decentralized "omniprocessors" that are fast, effective and continuously treat single and mixed organic waste streams. The systems are prefabricated, compact and modular for cost effective integration into the operations of an existing facility.

AirSCWO has been proven effective at eliminating emerging contaminants such as PFAS and 1,4-Dioxane, drugs, microplastics and pathogens. It is an innovative and disruptive alternative to conventional waste disposal and treatment.



Model	Daily Capacity (wet tonne)	Energy Produced (+) /or Drawn (-) (kWh/day)	Allocated Land (ft2)	Distilled Water Generated (gallons/ day)
Nix6	6	-240	1200	720
Nix30	30	+300	3,000	3,500
Nix200	200	+4,000	7,500	23,000

Waste Types

- Wastewater sludge and biosolids
- Landfill leachate
- Food waste
- PFAS, microplastics, drugs, CECs
- Hazardous and non-hazardous waste
- Waste oils including FOG

Industries & Applications



Industrial WWTP



Municipal WWTP



Food & Beverage



Chemical,
Pharmaceutical, Oil & Gas



Agricultural &
Animal Feeding



Encampments, Villages &
Temporary Settlements

Benefits

- 97% volume reduction and >99.9% organics elimination
- On-site treatment, no offsite hauling
- Prefabricated, easy to deploy units
- No odors, no air pollutants, lower GHG
- Cost competitive with conventional treatment technologies
- Supports a circular economy and the UN Sustainability Development Goals

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